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Date: Aug 28, 2002 10:13 AM  
About: Results were produced by the GenCore software, version 4.5,  
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 ; GENERAL INFORMATION:  
 ; APPLICANT: Geogopoulos, Katia  
 ; APPLICANT: Morgan, Bruce A.  
 ; TITLE OF INVENTION: AIOLYS GENE  
 ; FILE REFERENCE: 10287-031001  
 ; CURRENT APPLICATION NUMBER: US/09/019-348A  
 ; CURRENT FILING DATE: 1998-02-05  
 ; PRIOR APPLICATION NUMBER: US 08/7733, 622  
 ; PRIOR FILING DATE: 1996-10-17  
 ; PRIOR APPLICATION NUMBER: US 60/017, 646  
 ; PRIOR FILING DATE: 1996-05-14  
 ; PRIOR APPLICATION NUMBER: US 60/005, 529  
 ; PRIOR FILING DATE: 1995-10-18  
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 ; US-09-019-348A-25

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 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katerina  
 ; TITLE OF INVENTION: IKAROS REGULATORY ELEMENTS AND USES  
 ; TITLE OF INVENTION: THEREOF  
 ; FILE REFERENCE: 10287-067001  
 ; CURRENT APPLICATION NUMBER: US-09-775, 830  
 ; PRIORITY APPLICATION NUMBER: US 08/283, 300  
 ; PRIORITY FILING DATE: 1994-07-29  
 ; PRIORITY APPLICATION NUMBER: US 08/238, 212  
 ; PRIORITY FILING DATE: 1994-05-02  
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 ; PRIORITY FILING DATE: 1993-09-14  
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 ; TITLE OF INVENTION: ATOLOS GENE  
 ; FILE REFERENCE: 10287/031W01  
 ; CURRENT APPLICATION NUMBER: PCT/US99/02559  
 ; CURRENT FILING DATE: 1999-02-05  
 ; EARLIER APPLICATION NUMBER:  
 ; EARLIER FILING DATE: 1998-02-05  
 ; NUMBER OF SEQ ID NOS: 29  
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- 17 rProProValSerAspThrProAspIuGlyIysGluProMetProValP 34
- 101 CCGAGGZACTCTCACACACTCTGGGAGACAGGCTCAAGAGTGCAC 150
- 34 roGluAspLeuSerThrSerGlyIuAlaGlnGlnAsnSerLysSerAsp 50
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- 51 ArgGlyMetAlaSerAsnValLysValGluThrGlnSerAspIuGluI 67
- 201 TGGCGTGCCTGTGAAATGATGGGAAAGAATGNGGAGGATTACCAA 250
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398 SerAsnAlaGluGluGlnArgSerCysLeuLysLeuLysLeuLysLeu 414

1248 CGGCCACGGCCGCAACGC...GTCGCTCAAGGAGGACCCGGCT 1294

414 eAsnProHisAlaArgAsnGlyLeuAlaLeuLysCysGluGlnArgAlaT 431

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1436 GCTGCCACGGCTCCGCTGATGCTGAGCTCTGAGCTGCGGTCACCC 1485

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; Sequence 27, Application US/09019348A

; GENERAL INFORMATION:

; APPLICANT: Georgopoulos, Katia

; APPLICANT: Morgan, Bruce A.

; TITLE OF INVENTION: ATILOS GENE

; FILE REFERENCE: 10287-031001

; CURRENT APPLICATION NUMBER: US/09/019, 348A

; CURRENT FILING DATE: 1998-02-05

; PRIORITY APPLICATION NUMBER: US 08/733, 622

; PRIORITY FILING DATE: 1996-10-17

; PRIORITY APPLICATION NUMBER: US 60/017, 646

; PRIORITY FILING DATE: 1996-05-14

; PRIORITY APPLICATION NUMBER: US 60/005, 529

; PRIORITY FILING DATE: 1995-10-18

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: FastSEQ for Windows Version 4 . 0

; SEQ ID NO: 27

; LENGTH: 518

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-019-348A-27

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651 GGACATTAAGAGCCGCTGCCACAACACTTGAAAGCATGGCCCTTCGG 700  
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 ; Sequence 40, Application US/09755830  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia  
 ; TITLE OF INVENTION: IKAPOS REGULATORY ELEMENTS AND USES  
 ; FILE REFERENCE: 10287-067001  
 ; CURRENT APPLICATION NUMBER: US/09-7755, 830  
 ; CURRENT FILING DATE: 2001-01-05  
 ; PRIOR APPLICATION NUMBER: US 08/283, 300  
 ; DEPT FILING DATE: 1994-07-29



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GENERAL INFORMATION:
APPLICANT: The General Hospital Corporation
TITLE OF INVENTION: THE HELIOS GENE
FILE REFERENCE: 102B7/043W01
CURRENT APPLICATION NUMBER: PCT/US99/04224A
CURRENT FILING DATE: 1999-02-26
EARLIER APPLICATION NUMBER: US 60/076,325
EARLIER FILING DATE: 1998-02-27
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO: 7
LENGTH: 517
TYPE: PRT
ORGANISM: Mus musculus
T-US99-04224-7

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Quality: 2426.50 Length: 521
Ratio: 4.892 Gaps: 7
Percent Similarity: 95.202 Percent Identity: 89.443

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301 AGCTGGCTTGCCTGGGATCTGGGATTGAGGCTTACGGAAACT 350
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; Sequence 7, Application US/09259389  
; GENERAL INFORMATION:  
; APPLICANT: Mogan, Bruce A.

; APPLICANT: Kelly, Clair  
; TITLE OF INVENTION: THE HELIOS GENE  
; FILE REFERENCE: 102B/043001

; CURRENT APPLICATION NUMBER: US/09/259, 389  
; CURRENT FILING DATE: 1999-02-26  
; EARLIER APPLICATION NUMBER: US 60/076, 325

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO: 7  
; LENGTH: 517  
; TYPE: PRT  
; ORGANISM: Mus musculus

US-09-259-389-7

alignment\_scores:  
 Quality: 2426.50  
 Ratio: 4.892  
 Percent Similarity: 95.202  
 Percent Identity: 89.443

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 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Karia A.  
 ; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE  
 ; NUMBER OF SEQUENCES: 152  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LATHIVE & COCKFIELD  
 ; STREET: 60 STATE STREET, Suite 510  
 ; CITY: BOSTON  
 ; STATE: MASSACHUSETTS  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/121-438  
 ; FILING DATE:  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 946,233  
 ; FILING DATE: 09-SEP-1993  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Myers, Paul L.  
 ; REGISTRATION NUMBER: 35,695  
 ; REFERENCE/DOCKET NUMBER: MPG-006  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400  
 ; TELEFAX: (617)227-5941  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
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951	CATCAACTACCTGGGGCCGAGTGGCTCTGGCGCCCTGGTGGCAGACGCC	1000
365	alAspAsnTyrLeuGlyAlaLysLeuArgProLeuValGlnThrProP	382
1001	CGGGCGTTCCGAGGGGCCACCCCGCTCAACCACTGGGCCAGGAGCAG	1050
382	ToglyLysSerSerGlnValAlaProValLeuSerSerMetTygGlnLeuHis	398
1051	AGG...CGCTGGAGGCCACCCCGCTCAACCACTGGGCCAGGAGCAG	1097
399	LysProProAspGlyProProArgSerAspHisSerAlaGlnAsp... .	414
1098	CGCCCTGGAGTACCTGCTCTGCTCCAAGGCCAAGTGGGCCCTCGG	1147
415	.AlaAlaAspAsnLeuLeuLeuSerLysAlaLysSerValSerSerg	431
1148	AGCGGAGGCCTCCGGCAAAAGCTGCCAAGACTCCAGGACACCGAG	1197
431	IuArgGluLysLeuProSerAsnSerCysGlnAspSerThrAspGlu	447
1198	AGCACAAAGGAGGAGCACGCCAGGAGCTTACCTGACCAACACAT	1247
448	SerAsnAlaGluGluGlnArgSerGlyLeuIleTyrLeuThrAspHisI	1464
1248	CGCCGAGGCCAAAGC...GTGTCGCTCAAGGAGGAGCACCGCCCT	1294
464	eAsnProHisAlaArgAsnGlyLeuIleLeuLysGluGlnArgAlaT	481
1295	AGCACATCTGGCGGCCCTGGCAAAACTGCGAGACGGCTCGCG	1344
481	yrGluValLeuArgAAaLaaSerGluAsnSerGlnAspAlaPheArgYai	497
1345	GTCAGACCAGCGGGAGGAGATGAGGTGTCAGTGGAAACACTGCGC	1394
498	ValSerIhrSerGlyLysGluGlnLeuLysSvalTyrylSlysGluHisCysSer	514
1395	GTCGCACTTCTGGATCACGTCATGACCACTCACATG.....G	1435
514	gValLeuIpheLeuAspHisValMetTythrIleHisMetGlyCysHiSg	531
1436	GCTGCCACGGCTTCGGTGAATGCAACATGTCGCTCACAC	1485

510 GAAAGCCCTTCAAATGCCAACCTCGCAACTAACGGCTGCGCCGGAGGGAGC 559  
 119 uysProPhelysCysRHisLeuCysAsnTyRAlaCysArgTArgAspA 136  
 560 CCTCTACTGGCACCCTGAGGAGCCTGACTCTGGTAACCTCAAAATGT 609  
 136 laeLeuThrGlyHisLeuArgThrRHisSerValGlyLysProHsLysCys 152  
 610 GATAATGTGGCGAACGCTATAAACGGAAACGCTTTAGAGGAACATAA 639  
 153 GlyTycysGlyArgSerTyrLysGlnArg\* \*SerLengLgluHistyl 169  
 660 AGAGCGTGCCACAACACTGAAACGCAACGGCTTCGGGACACAGT 709  
 169 SGluArgCysHSiAsnThrLeuGluserMetGlyLeuProGly\*\*\*\* 186

710 ACCCAAGCTATTAAAGAGAAACTAAAGCACAGTGAATGGCAGAGACCTG 759  
 186 \* \*ProValIleLysGluLuthr\*\*His\*\*\*GluMetAlaLysPleu 202  
 760 TGCAGAGATAGGATCAAGAGATCTCGTGGCACAGACTAGCAGTAA 809  
 203 CysLysIleGly\*\*GluArgSerLeuValLeuAspArgLeuAlaSerAs 219  
 810 TGTGCCAAACGTTAACAGAGCTCTATGCCCTCAGAAATTCTGGGAAAGG 859  
 219 nvalAlaLysArgTysSerSerMetProGlnIysPheLeuGlyAspIys\* 236  
 860 CCCTGTCGCAACGCCCTACGCAAGTGGCACCTGAGGAGAACGAA 909  
 236 \* \*LeuSerAsp\*\*\*ProTyrAspSerAla\* \*#TyrGluLysGlu\*\*\*\*\* 252  
 910 ATGATAAAGTCCACGGTGTGAGCAAGGCACTACAACGCTCAACTA 959  
 253 MetMet\*\* \*SerHisValMetAsp\*\*AlaIleAsnAlaIleAsnTy 269  
 960 CCTGGGGCCAGTCCCTGGCCGGCTGGCAGACGCCGGCGGCGGTT 1.009  
 269 rleuGlyAlaGluSerLeuLysProLeuAlaGlnThrProGly\*\*\*S 286  
 1010 CCCAGGTGGTCCGGCATCAAGGCCGATGACCTGACAGCTGGAC 1056  
 286 ergluValValProValIleSerProMetylGlnLeuHis\*\*\*\*\* 302  
 1057 TCGAGGGCACCCGGCTCCAACTCGGCCAGGACAGGGCGGTGCA 1106  
 303 Ser\*\*\*Gly\*\*ProArgSerAsnHisSerAlaGlnAsp\*\*AlaVal\*\* 319  
 1107 GTACCTGCTGCTCTCAGGCCAGTGGTGCCTGGCAGGGCAGAG 1156  
 319 \*\*\*LeuLeuLeuSerLysAlaLys\*\*Val\*\*SerGluArgGlu 336  
 1157 CGTCCCCGAGAACAGCTGCAAGACTCAGCGACACCGAGGACAC 1206  
 336 laserProSerAsnSerCysGlnAspSerThrProGluSerAsn\*\* 352  
 1207 GAGGGCAGCGCACCGGCTCCAACTGACCAACACATGGCCGAC 1256  
 353 GluGluGlnArgSerGlyLeuLeuThrLeuThrAsnHisIle\*\*\*\*\* 369  
 1257 CGCG...CAACGGCTGTCCTCAAGGAGGAGACCGGGCTGACACTGC 1303  
 369 \*Ala\*\*\*\*\*LeuLysGluLysLysLysLysLysLysLysLysLysL 386  
 1304 TGCGCCGCCCTCGAGAACACTCGCAGGACGGCTCGGGTGTGAC 1353  
 386 euArgAlaAlaSerGluAsnSerGlnAspAla\*\*ArgValValSerThr 402  
 1354 AGCGGGAGGAGGATGAGGCTGACAGTGGCAACACTGGGTGCTT 1403  
 403 SerGlyGluGin\*\*\*LysValTyrLysCysGluHisCysArgValLeuPh 419

1404 CCTGGATCACGTCATGTCACCCATCCACATG.....GGCTGCCACG 1444  
 419 eLEuAspHisValMetIrrThrLleHsMe\*\*\*\*\*GlyCysHisG 436  
 1445 GCTTCGCTGATCTCTTGTGAGTGCACATGTCGGCTTACACAGCAC 1494  
 436 lypHeArgAspProPhiGluCysAsnMetCysGlyTyRHisSerGlnAsp 452  
 1495 CGTAGAGTCTGGTGCACATAACGGAGGAGGACCGCTCCACAT 1544  
 453 ArgTyGluPhiGluSerSerHistileThrArgTyGluHisArg\*\*\*His\*\* 469  
 1545 GAGC 1548  
 469 \*Ser 470

seq\_name: /cgn\_2\_6/ptodata/2/baa/US082\_COMB.pep:US-08-238-212A-153

seq\_documentation\_block:

; Sequence 153, Application US/08238212A

; GENERAL INFORMATION:

; APPLICANT: Georgopoulos, Katalia A.

; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE

; NUMBER OF SEQUENCES: 164

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: LAHIVE 5 COCKFIELD

; STREET: 60 STATE STREET, Suite 510

; CITY: BOSTON

; STATE: MASSACHUSETTS

; COUNTRY: USA

; ZIP: 02109

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: ASCII (text)

; CURRENT APPLICATION NUMBER: US/08/238, 212A

; APPLICATION NUMBER: US/08/238, 212A

; FILING DATE: 14-SEP-1992

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 121, 438

; FILING DATE: 14-SEP-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 946, 233

; FILING DATE: 14-SEP-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Myers, Paul L.

; REGISTRATION NUMBER: 35, 695

; REFERENCE/DOCKET NUMBER: MPG-006CP2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400

; TELEFAX: (617)227-5941

; INFORMATION FOR SEQ ID NO: 153:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 470 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: Peptide

; FRAGMENT TYPE: C-terminal

; US-08-238-212A-153

alignment\_block:

US-08-711-417C-165 x US-08-238-212A-153 ..

Align seg 1/1 to: US-08-238-212A-153 from: 1 to: 470

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 3 AlaSerAsnValLeuValGluthecInserAspGluGluAsnGlyArgAla 19  
 210 CTGTGAAATGTAATGGGAAGAATGGTCCAGGACCAATTACGAATGGTTGATG 259  
 19 acYSGluMetAsnGlyGluGluLucysAlaGluAspLeargMetLeuAsp 36  
 260 CCTGGGAGAGAAAATGATGGTCCAGGACCAAGGCACCTCGGCT 309  
 36 laserGlyIulysMetAsnGlySerHISArgAspGlnGlySerSerAla 52  
 310 TTGNGGGAGTTGGGAAATGTTGAGGATTCGACTCTTAAGGAAACTAAAGTGTA 359  
 53 LeuSerGlyValGlyIle\*GlyLeuProAsnGlyLeuLeuLyscysAs 69  
 3660 TACCTGTGGATCATTTGATCGGCCATTGCTCATGGTTCAAAAA 409  
 69 pIleCysGlyIle\*\*CysteGlyProAsnValLeuMetAlaHisysA 86  
 410 GAGCCAGACTGGAAACGCCCTTCCAGTGGCAATCAGTGGGGCCTCA 459  
 86 ArgSerHisthrGlyGluArgProPheIncySAsnGlyAspSer 102  
 460 TTCACCAAAGGGCAACCTGTCCGGCACATCAACTGATCCGGGA 509  
 103 PheThrGlyLysGlyAsnLeuLeuArgHisthrLeuSerGlyGly 119  
 510 GAGGCCCTTCAATGGCACACTCTGCACTAACGCTGCTGGGGGAGG 559  
 119 IlysProPheIleGlyCysAsnTyrrAlaIadysArgArgAspAla 136  
 560 CCCTCACTGGCACCTGTAGGAGCAGACTCGTGGTAAACCTCACAAATGT 609  
 136 laLeuThrGlyHisLeuArgSerTyrrGlyLysProHisLyscys 152  
 610 GGTATTTGCGCAACTTGTGGCACATGGGCAACTGGGACACTGT 709  
 153 GlyTyrcysGlyArgSerTyrrGlyLysProHisLyscys 169  
 660 AGGGCTGTGCCACAACACTTGAAAGCATGGGCCCTCGGGACACTGT 709  
 169 SGLarArgCysHisAsnTyrrLeuGlyLeuProGly\*\*\*\* 186  
 710 ACCAGTCATAAAGAAGAAACTAAGGACAGTGAATGGAGAGACCTG 759  
 186 \*ProValleIleGluGluThr\*\*His\*\*\*GluMetAlaGluAspLeu 202  
 760 TGCAGATAGGATCAGAGAATCTCTGAGACTGCAACTAA 809  
 203 CysGlyIle\*\*GluArgSerLeuValLeuAspArgLeuAspSer 219  
 810 TGCTGCCAACGTAAGCTATGCCCTAGAAATTCTGGGACAGG 859  
 219 nValAlaLysAlaGlySerSerMetProGlyIleLeuGlyAspLys\* 236  
 860 GCCTGTCGACAGCCCTACGAGTCAGTCCTGAGACTGCAACTAA 959  
 253 MetMet\*\*SerHisthrAlaMetAsp\*\*AlaIleAsnAlaIleAsnTy 269  
 960 CCTGGGGCCGAGTCCTGCCGCCGCTGGTAGAGGCCCGGGTT 1009  
 269 rleuGlyIalasuseLeuArgProLeuValGlyIleLeuGlyAspLys\* 286  
 1010 CGAGGTGGTCCACCTGATGAGCAAGGCAATCAACGCCATAACTA 959  
 286 erGluValValProValleIeserProMettryGlyLeuHisArg\*\*\*\* 302

seq\_name: /cgn2\_6/ptodata/2/paa/US084\_COMBO.pep; US-08-465-590B-153  
 seq\_documentation\_block:  
 ; Sequence 153, Application US/08465590B  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Georgopoulos, Katia A.  
 ; TITLE OF INVENTION: IKAO: A T CELL PATHWAY REGULATORY GENE  
 ; NUMBER OF SEQUENCES: 191  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 28 STATE STREET, Suite 510  
 ; CITY: BOSTON  
 ; STATE: MASSACHUSETTS  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: ASCII (text)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/465-590B  
 ; FILING DATE: 05-JUN-1995  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/238, 212  
 ; FILING DATE: 02-MAY-1994  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/121, 426

FILING DATE: 14-SEP-1993  
 PRIORITY APPLICATION NUMBER: US 07/946,233  
 FILING DATE: 14-SEP-1992  
 ATTORNEY / AGENT INFORMATION:  
 NAME: Myers, Paul L.  
 REGISTRATION NUMBER: 35,695  
 RELEVANT DOCKET NUMBER: MPG-006C2DV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 153:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 470 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: Peptide  
 FRAGMENT TYPE: C-terminal  
 US-08-465-590B-153

alignment\_scores:  
 Quality: 2207.50 Length: 468  
 Percent Similarity: 5.098 Gaps: 3  
 Ratio: 92.521 Percent Identity: 90.385

alignment\_block:  
 US-08-711-417C-165 x US-08-465-590B-153 ..

Align seg 1/1 to: US-08-465-590B-153 from: 1 to: 470

160 GCGCAATTAAGTACAGTCAGCTGAAAGAACATGGGGTGC 209  
 3 AlaserAsnValLysValGluIthrGlnSerArgPheGluAsnGlyArgAl 19  
 210 CTGTGAATGATGGGAGAATGCGGAGATTAGCAATGCTGATG 259  
 19 acyGluMetLysGlyGluLysAlaGluAspLeuArgMetLeuAspA 36  
 260 CCTCGGAGAACATGAATGCAAGGCCAACAGGCAAGCTCGGCT 309  
 36 .aserGlyGluLysMetAsnGlySerHisArgaspGlyLeuAspSerAla 52  
 310 TCTCGGGACTGGAGGCCATGCACTTCCATAACGAAACAACTAACAGTGTCA 359  
 53 LeuSerGlyValGlyIleArgLeuProAsnGlyLysLeuLysCysAs 69  
 360 TATCTGGGATCATGCAATGGGCCCAATGTCGTCATGGTTCAAAA 409  
 69 pIleCysGlyIle\*\*cysteIleGlyProAsnValLeuMetAlaHisLysA 86  
 410 GAAGCCACACTGGAACTGCAAACTGCAATCAGTCGGGCCCTCA 459  
 86 rgSerHisThrGlyGluArgProheGlnCysAsnGlyAlaSer 102  
 460 TTACCCAGAAGGCCAACCTGTCGGCACATCAAGCTGCATTCGGGGA 509  
 103 PheArgGlnLysGlyAsnLeuLeuArgHistidineLeuIleSerGlyG 119  
 510 GAAGCCCTCAAAATGCCACCTCTGCAAACGCTGCCGCGGGGACG 559  
 119 uLysProPhyLysCysHisIleCysAsnTyralaCysArgArgAspa 136  
 560 CCCTCACPTGCCAACCTGAGGCCACATCCTGGCTGTAACCTCACAAATG 609  
 136 laLeuThrGlyHisLeuGlyIleGlySerValGlyAspProheGly 152  
 610 GGATATTGCGCCGAAGCTATAACGCCAACTGCTTAAAGGAAACATAA 659  
 153 GlytYrCysIleArgSerIlysGlyLysGluHisArg\*\*\*His\*\* 169  
 660 AGAGGCTGCCAACACTACTGGAAACCATGGCCATGGCCACACTGT 709

169 sGluArgGlyShisAsnTyrlLeuGluserMetGlyLeuProGly\*\*\*\*\* 186  
 710 ACCCAGTCATTAAGAGAACTAAGGACAGTGAAATGGC2GAGACCTG 759  
 186 \*\*ProValIleLysGluIthr\*\*\*His\*\*\*GluMetAlaGluAspLeu 202  
 760 TGCAAGATAGGATCAGAGATCTCTGCTGAGACAGCTAGCAAGTAA 809  
 203 CyslysIleGly\*\*GluArgSerLeuValLeuAspArgLeuAlaserAs 219  
 810 TGTCGCCAACGTTAAAGAGCTPATGCCCTCAGAAATTCTGGGACAAAG 859  
 219 nvalAlaLysArglysSerSerMetProGlnLysPheLeuGlyAspIys\* 236  
 860 GCCTGTCGCCAGCAGCCCTAGACAGTCGCACTGAGCAAGGAGAAAGAA 909  
 236 \*\*LeuSerAsp\*\*\*ProTyraspSerAla\*\*\*TyrglyIlysGlu\*\*\*\*\* 252  
 910 ATGATGAAGTCCCAAGTGATGGCCAAGGCCATCAACACGCCATCAACTA 959  
 253 MetMet\*\*\*SerHisValMetAsp\*\*\*AlaIleAsnAlaAlaLeuTy 269  
 960 CCTGGGGGCAGTCGCTCCGCTTGGCCCCCTGTGTCGAGCGCCGGCGGTT 1009  
 269 IleuGlyAlaGluSerIleuArgProLeuAlaGlyIleuGlyIleu 1056  
 1010 CCGAGGTGGTCCGGCCTCATGAGCCATGACCACTGACGAACTGCAAC 1056  
 286 ergluIvalValProValIleSerProMetylGlyLeuIleHis\*\*\*\*S 286  
 1057 TCGGAGGACACCCGCCCTCAACCACCTGCCCAAGGACZAGGCGCGTGGAA 1106  
 303 Ser\*\*\*Gly\*\*\*ProArgSerAsnHisSerAlaGlnAsp\*\*\*AlaVal\*\* 319  
 1107 GTCCTGCTGCCTCTCCTCAAGGCCAAGTGTGCTCTCGAGGGCGAGG 1156  
 319 \*\*\*LeuIleLeuIleSerIlySalaLys\*\*\*Val\*\*\*SerGluArgGluA 336  
 1117 CGTCGCCGAGCACAGCTGCCAGAACGTCAGCAGCACACAC 1206  
 336 laserProeAsnSerCysGlnAspSerThrAspPheGluSerAsn\*\*\* 352  
 1207 GAGGAGCAGCAGCAGCTTACTCTGACCAACCATGCGCGGACG 1256  
 353 GluGluGlyArgSerGlyLeuIleThrAsnHisIle\*\*\*\*\* 369  
 1257 CGCG...CHACGGCTGTCGCTCAAGGGAGGCCACCGCCTGACGCTGC 1303  
 369 \*Ala\*\*\*\*\*LeuIleGlyIleuGlyIleuGlyIleuGlyIleuGlyIleu 386  
 1304 TGCGGCCGCTCCGAGAACCTGCCAGGAGGCCGCTCCGGTGTCAGCAC 1353  
 386 euArgAlaAlaSerGluAsnSerGlnAspAla\*\*\*ArgValValSerThr 402  
 1354 AGCGGGGAGGAGAACATGGGTGACAGTCGCAACACTGCGGTTGCCTCT 1403  
 403 SerGlyGluGin\*\*\*LysValty-LysCysGluHisArgValLeuPh 419  
 1404 CCTGGGATCACGTCATGTCACATCCACATCCTGAGTCATGTCACATG 1444  
 419 eleuAspHisValMetTyrrHileHisNet\*\*\*\*\*GlyCysHsG 436  
 1445 GCTTCGCTGATCCTTGTGAGNGCAACATGTCGGCTACACAGCCAGAC 1494  
 436 lyPheArgAspProheGlyLysAsnMetCysGlyTyrrHisSerGlnAsp 452  
 1405 CGGTACSGAGTCTCGTCGACATAACGCCGACACACTGCGGTTGCCTCT 1544  
 453 ArgTyrglyIleGlyLeuGlyIleGlyIleGlyIleGlyIleGlyIle 469

469 \*Ser 470

seq\_name: /cgn2\_6/pidata/2/paa/US08733-622A-22

seq\_documentation\_block:

; Sequence 22, Application US/08733622A

; GENERAL INFORMATION:

; APPLICANT: Katerina Georgopoulos

; TITLE OF INVENTION: The Aiolos Gene

; NUMBER OF SEQUENCES: 22

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: LAHIVE & COCKFIELD, LLP

; STREET: 28 State Street

; CITY: Boston

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02109-1775

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0,

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/733,622A

; FILING DATE: 17-OCT-1996

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/017,646

; FILING DATE: 14-MAY-1996

; REFERENCE/DOCKET NUMBER: 35,965

; APPLICATION NUMBER: 60/005,529

; FILING DATE: 18-OCT-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Myers, Louis

; REGISTRATION NUMBER: 35,965

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400

; TELEFAX: (617)742-4214

; INFORMATION FOR SEQ ID NO: 22:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 470 amino acids

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FRAGMENT TYPE: C-terminal

US-08-733-622A-22

alignment\_scores:

Length: 468

Quality: 2207.50

Percent Ratio: 5.098

Similarity: 92.521

Gaps: 3

Percent Identity: 90.385

alignment\_block:

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  19 acySGlumeAsnGlyGluLysAlaGluAspLeuArgMetLeuAspA 36

260 CCTCGGGAGAGAAAATGATGGCTCCAGGGACCAGGGCAGCTCGGCT 309

  36 laserglyIuLysMetAsnGlySerHISArgAspGlnGlySerSerAla 52

1207 TGTGCGGAGTTGGAGCATTCGAACTTCTAACGGAAACATAAGTGTA 359

353	GluGlugInargSerGlyLeuIleThrLeuThrAsnHisIle*****	369
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369 *	LeuLysGluGlu***ArgAlaTr****L	386
11304	TGCCGCCGCTCGAGACTCCAGGAGCGCTTCAGCTGGCAGACCC	1353
386 euA	AlaSerGluasSerLysSerLysAla***ArgValValSerThr	402
1354	AGGGGGAGGAGATAAGGTGTACAATGCGAAACATGCGGGGTGCTT	1403
403	SerGlyGluLysValtryLysCysGluLysCysArgAlaLeuPhe	419
1404	CCTGGATCACGTCATGTAACCATCACATG.....GGCTGGCCACG	1444
419 eLeuAspHisValMetTyrrHsieMetLysGlyLysSerLysAsp	436	452
1445	GCTTCGTTGATCCTTGAGTGCACATGCGGGTACACAGCCAGGAGC	1494
436	LysPheGasProPheGluLucyAsnMetCysGlyLysSerLysAsp	452
1495	CGGTAGCAGGTCGTCGCGCACATAAGCGAGGGAGCACCGCTTCACAT	1544
453	ArgGlyGluSerSerHistidineArgGlyLysIleArgGlyLysArg**His**	469
1545	GAGC 1548	
469 *	Ser 470	